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PHOTOGRAPHIC INTERPRETATION REPORT

**KRASNOARMEYSK MISSILE RESEARCH
AND DEVELOPMENT FACILITY
USSR**

DECEMBER 1967
COPY 116
12 PAGES

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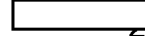
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PHOTOGRAPHIC INTERPRETATION REPORT

KRASNOARMEYSK MISSILE RESEARCH AND DEVELOPMENT FACILITY USSR

DECEMBER 1967

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INTRODUCTION

This report presents the chronological development of the Missile Research and Development Facility near Krasnoarmeysk, USSR (BE designation: Krasnoarmeysk Solid Motor Development Facility, [REDACTED]). The installation is located in a heavily wooded area at 56-09N 038-10E, approximately 28 nautical miles (nm) northeast of Moskva, USSR. It is rail and road served, and occupies an area approximately 13 by 3.6 nm (Figures 1 and 2).

Initial photographic coverage of this facility occurred in [REDACTED]. At that time the installation appeared to be a military training area. Photography of [REDACTED] through [REDACTED] revealed that major construction activity had occurred since 1942.

DESCRIPTION

The facility contains 3 horizontal test areas (A, B, and C), 2 probable test areas (D and E), and 2 possible test areas (F and G) as well as a probable rocket sled test track, a probable ballistics range, and an extensive possible weapons/propellants test area (Figure 3). Other features include 2 cleared areas of undetermined significance, a probable

checkout/support area, a propellant explosives storage area, a revetted storage area, and a housing/support area.

Test Area A is a horizontal test area which includes 2 horizontal test buildings, 2 batch/micro test buildings, and a building under construction. The test area is rail and road served and separately secured.

Test Area B is a small secured horizontal test area with a horseshoe-shaped test position and several buildings.

Test Area C is a small horizontal test area which contains a revetted test position, 1 probable test position, and 2 control buildings.

The 2 probable test areas and 2 possible test areas appear smaller in size and significance than Areas A, B, and C. No sign of test activity was observed at any of these areas.

The possible weapons/propellants test area contains numerous test positions which consist of a circular wall or 2 opposing arcuate walls. The type of explosive/propellant/weapons being tested or the purpose of such testing cannot be determined. That portion of the facility northeast of the possible weapons/propellants test area is a large cleared space and does not contain any significant features. For descriptive purposes, the southwestern part of the facility

(outlined in Figure 3) is presented in 2 drawings, Figures 12 and 13.

The building measurements presented in Tables 1-4 are believed to be accurate within ± 10 feet or 5 percent, whichever is greater.

HIGHLIGHTS OF CHRONOLOGICAL DEVELOPMENT

1942-1961

Part of this facility was photographed by the Germans on [REDACTED]. At that time it was considered to be a military training area. However, no signature of a missile-related installation was observed. The facility was not observed again on aerial photography until [REDACTED] when the entire facility was covered on poor-quality [REDACTED] photography and appeared to be missile associated.

1962

The facility was observed for the first time on photography of good interpretability in [REDACTED]. The large horizontal test area, Test Area A (Figures 4 and 6), was in the midstage of construction. The first test building to be constructed in Test Area A (item 3, Figure 6

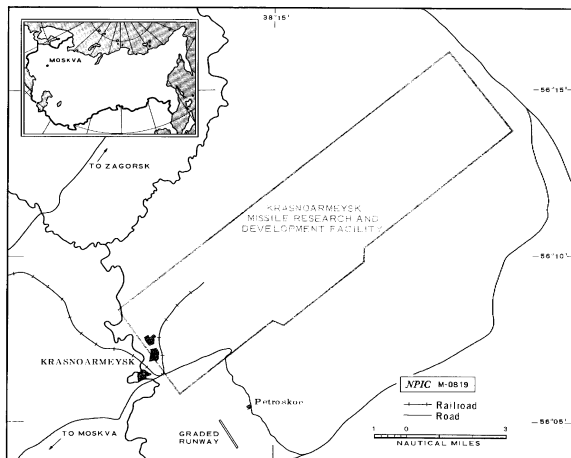


FIGURE 1. LOCATION MAP.

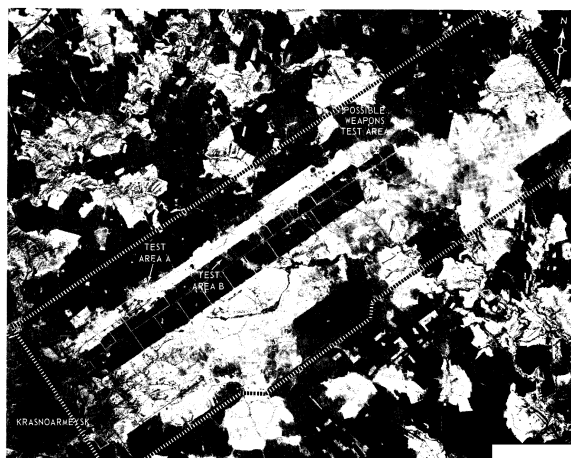


FIGURE 2. KRASNOARMEYSK MISSILE RESEARCH AND DEVELOPMENT FACILITY, USSR.

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and Table 1) was complete and 2 others (items 7 and 8) were under construction. Perspective drawings of items 3 and 8 are shown in Figures 7 and 8, respectively. A large high-bay building (item 10) was discernible on the eastern edge of the area. The small horizontal test area, Test Area B (Figures 5 and 9 and Table 2), with a horseshoe-shaped test revetment was observed for the first time. A perspective drawing of Test Area B is shown in Figure 10. No blast marks were observed at either areas A or B.

Test Area C was in the late stages of construction, and Areas D, E, F, and G were in the early stages of construction; these areas are shown in Figure 11. Areas C, D, and F are also shown in Figures 12 and 13. Dimensions, roof cover, and chronology of structures in Areas C, D, and F are incorporated in Tables 3 and 4.

Other areas identified were the possible weapons/propellants test area (Figure 3), which appeared 80-percent complete and the probable rocket sled test track, which was 60-percent complete.

1963

In Test Area A, blast marks were observed for the first

time at the horizontal test building (item 3, Figure 6) in [redacted]. The 2 test buildings previously under construction (items 7 and 8) were complete in [redacted] and a large revetted building (item 5) was under construction. The probable rocket sled test track was being extended and continued under construction.

1964

In Test Area A, a fourth test building (item 1, Figure 6), the large revetted building (item 5), and an additional support building (item 17) appeared complete. Test Area C and Areas D, E, F, and G appeared complete in [redacted]. [redacted] no blast marks were observed at any of these areas.

1965-1966

[redacted] blast marks were observed for the first time at the fourth test building in Test Area A (item 1) which is located adjacent to the original test building (item 3). Smoke was observed in Test Area C, probably signifying testing. Two cleared areas of undetermined signif-

icance (Figure 3) were observed in the center of the facility.

1967

The best photography to date was obtained in [redacted]. Many additions were observed and previous identifications were confirmed. At Test Area A blast marks were still observed at the original test building, and an addition/scaffold had been constructed at the southern end of the building. The only other addition in Test Area A was a large building under construction (item 19) on the western edge of the test area.

Blast marks and support buildings were observed for the first time in Test Area B in [redacted].

[redacted] The possible weapons/propellants test area was still under construction. The 2 small probable test areas, D and E, and the 2 small possible test areas, F and G, showed no sign of expansion or testing.

Other areas identified were a probable ballistics range and an unidentified test building located in the southern part of the facility.

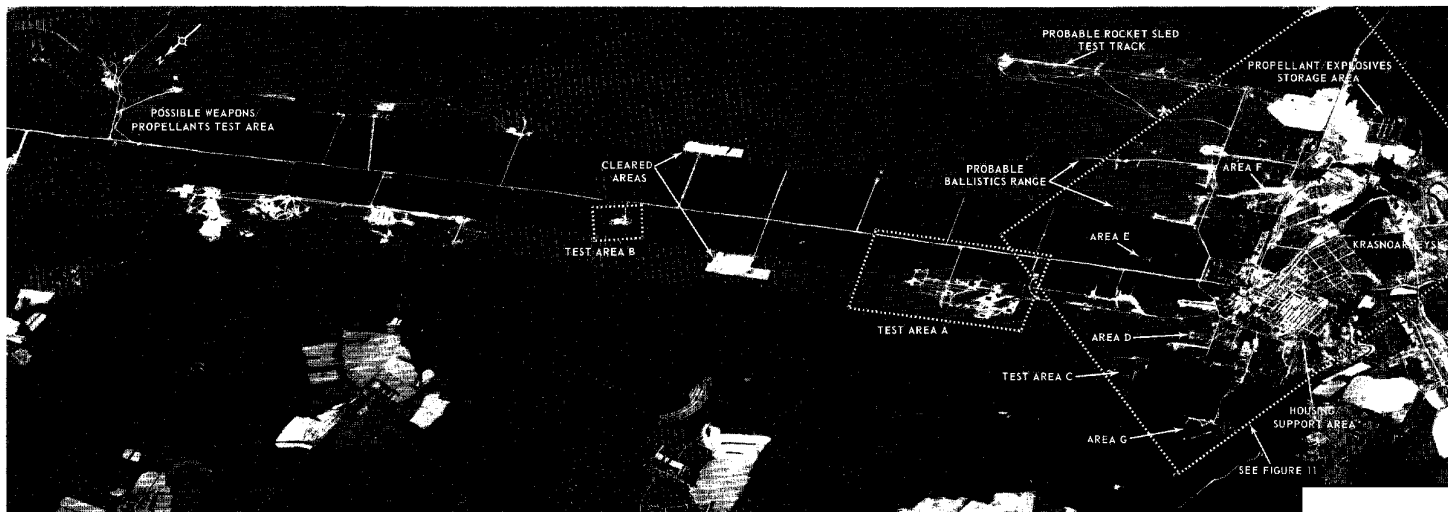
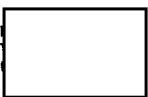


FIGURE 3. LOCATION OF TEST AREAS AND OTHER FEATURES AT KRASNOARMEYSK MISSILE RESEARCH AND DEVELOPMENT FACILITY

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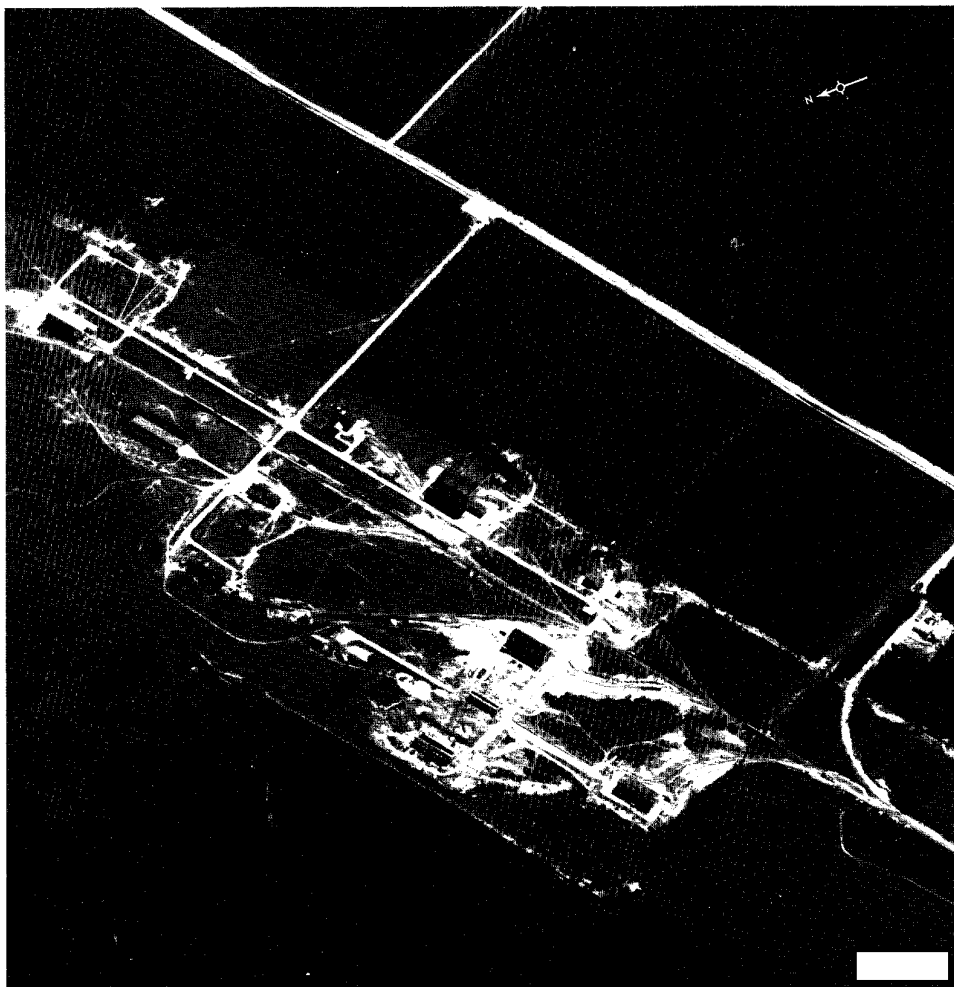
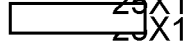


FIGURE 4. TEST AREA A

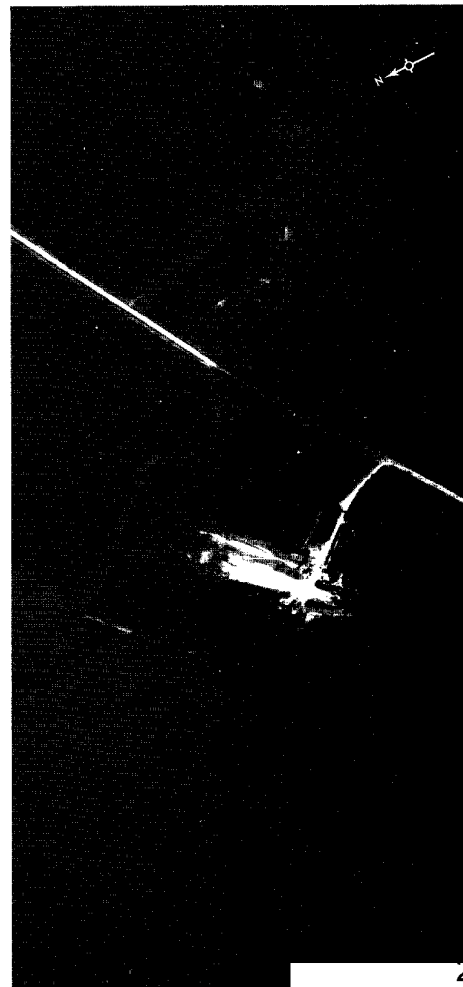


FIGURE 5. TEST AREA B

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Table 1. Probable Function, Dimensions, and Chronology of Buildings in Large Horizontal Test Area (Test Area A)

Item No	Probable Function	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed*	Comments
		L	W	H			
1	Horizontal test bldg						Completed [] second horizontal test bldg observed in Area A; rail served; blast marks first observed []
2	Support bldg						First horizontal test bldg observed in Area A; rail served; blast marks first observed []
3	Horizontal test bldg						
4	Small storage bldg						
5	Large revetted bldg						Prob checkout bldg. Drive-in bldg; probably storage for propellants; 19 u/i cylindrical objects adjacent to bldg
6	Utility bldg						Completed [] small test conducted in this bldg
7	Batch/micro test bldg						
8	Batch/micro test bldg						Completed [] small tests conducted in this bldg
9	Support bldg						Prob storage/utility bldg; rail served
10	High-bay assembly bldg						Rail-served multistory Bldg; motors/microproducts probably assembled here; 4 horizontal tanks adjacent to bldg
11	Storage bldg						Rail line goes through bldg
12	Storage bldg						
13	Support bldg						Revetted bldg
14	Support bldg						
15	Support bldg						Approx 75 percent complete; located in a depression
16	Checkout bldg						
17	Support bldg						Completed [] 5 poss missile transporters/low-boy trailers adjacent to bldg
18	Support bldg						
19	Bldg u/c						Rail served
20	Storage bldg						
21	Small security bldg						Rail served
22	Storage bldg						
23	Storage bldg						

*Complete when first observed unless otherwise noted.

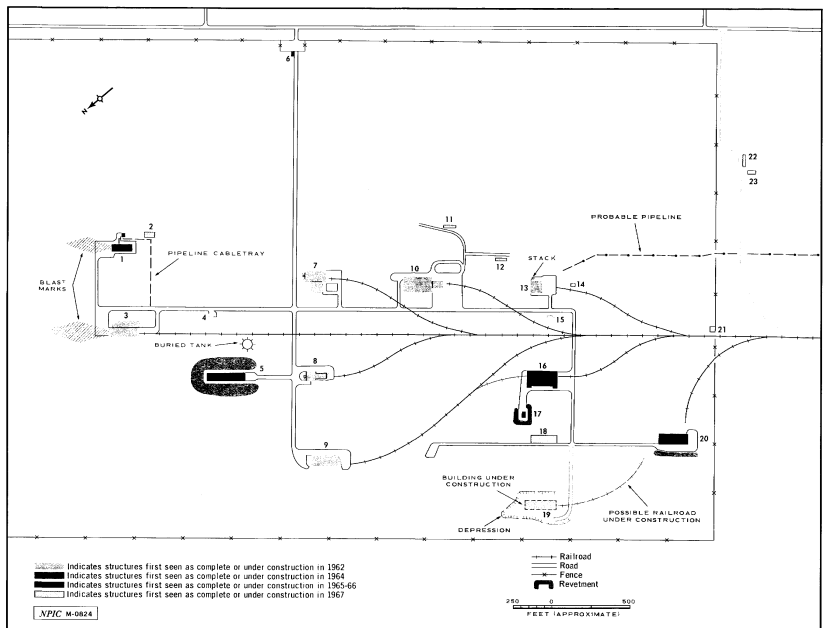


FIGURE 6. LAYOUT OF TEST AREA A.

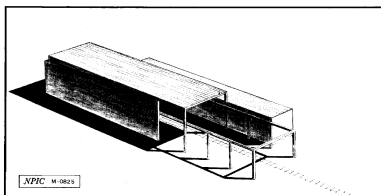


FIGURE 7. PERSPECTIVE OF TEST BUILDING (ITEM 3, FIGURE 6).

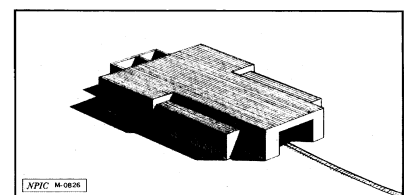


FIGURE 8. PERSPECTIVE OF TEST BUILDING (ITEM 8, FIGURE 6).

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Table 2. Probable Function, Dimensions, and Chronology of Structures in Small Horizontal Test Area (Test Area B)
(Item numbers are keyed to Figure 9)

Item No	Probable Function	Date First Observed*	Dimensions (ft)	Roof Cover (sq ft)
1	Support bldg			
2	Observation bldg			
3	Support bldg			
4	Support bldg			
5	Support bldg			
6	Thrust block			
7	Control bldg			
8	Test support bldg			

*Structures were complete when first observed.

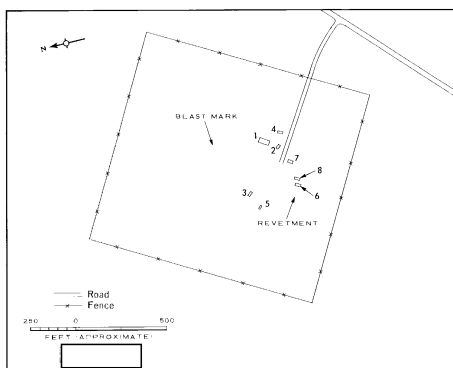


FIGURE 9. LAYOUT OF TEST AREA B



FIGURE 10. PERSPECTIVE OF TEST AREA B.



FIGURE 11. AREAS IN SOUTHWEST PART OF FACILITY.

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Table 3. Probable Function, Dimensions, and Chronology of Structures in Areas C, D, Revetted Storage Area, and Related Areas
(Item numbers are keyed to Figure 12)

Item No	Probable Function	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed*	Comments	Item No	Probable Function	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed*	Comments	Item No	Probable Function	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed*	Comments
1	Storage bldg				In late stages of construction	58	Storage bldg					117	Storage bldg				
2	Storage bldg					59	Support bldg					118	L-shaped storage bldg				
3	Storage bldg					60	Prob. horizontal tanks (14)						a (top)				
4	Storage bldg				Area D (small prob test area)	61	Prob horizontal tanks (14)						b (base)				
5	Control/support bldg												119	Storage bldg			
6	Control/support bldg												120	Storage bldg			
7	Control/support bldg												121	Storage bldg			
8	Utility bldg												122	Storage bldg			
9	Drive-in vehicle/maintenance bldg				Appears to be support bldg for Area D	62	Large manufacturing bldg						123	Storage bldg			
10	Storage bldg						a						124	Storage bldg			
11	Storage bldg						b						125	Large pass-admin/assembly bldg			
12	Small utility bldg						c						126	Storage bldg			
13	Storage bldg						d						127	Support bldg			
14	Storage bldg					63	Prob substation						128	Support bldg			
15	Storage bldg					64	Prob manufacturing bldg						129	Storage bldg			
16	Storage bldg												130	Prob vehicle/maintenance bldg			
17	Storage bldg					65	Utility bldg						131	Storage/support bldg			
18	Storage bldg					66	Utility bldg						132	Storage bldg			
19	Utility bldg					67	Storage bldg						133	Storage bldg			
20	Storage bldg					68	Admin bldg						134	Storage bldg			
21	Utility bldg					69	Storage bldg						135	Admin bldg			
22	Storage bldg					70	Storage bldg						136	Admin bldg			
23	Large storage bldg				Rail served; miscellaneous equipment scattered around bldg	71	Storage bldg						a				
24	Storage bldg					72	Storage bldg						b				
25	Revetted storage bldg					73	Storage bldg						137	Admin bldg			
26	Revetted storage bldg					74	Storage bldg						138	Storage bldg			
27	Revetted storage bldg				Revetted storage area; bldgs probably contain explosives. Item 28 completed	75	Revetted storage bldg						139	Storage bldg			
28	Revetted storage bldg					76	Storage bldg						140	Storage bldg			
29	Revetted storage bldg					77	Storage bldg						141	Storage bldg			
30	Revetted storage bldg					78	Utility/storage bldg						142	Assembly bldg			
31	Revetted storage bldg					79	Prob vehicle maint bldg						143	Storage bldg			
32	Revetted storage bldg					80	Utility/storage bldg						144	Storage bldg			
33	Revetted storage bldg					81	Storage bldg						145	Storage bldg			
34	Storage bldg					82	Storage bldg						146	L-shaped bldg			
35	Storage bldg					83	Support bldg						a				
36	Support bldg					84	Small utility bldg						147	Storage bldg			
37	Small utility bldg					85	Small utility bldg						148	Storage bldg			
38	Small utility bldg					86	Prob admin bldg						149	Storage bldg			
39	Storage bldg					87	Revetted storage bldg						150	Storage bldg			
40	Housing/storage bldg					88	Support bldg						151	Small utility bldg			
41	Admin bldg					89	Support bldg						152	Small utility bldg			
42	Prob admin bldg					90	U/I bldg						153	Small utility bldg			
43	Small utility bldg					91	Storage bldg						154	Vehicle/maintenance bldg			
44	Housing/support bldg					92	Utility bldg						155	Steamplant			
45	Housing/support bldg					93	Storage bldg						156	Support bldg			
46	Housing/support bldg					94	Storage bldg						157	POL tank			
47	Storage bldg					95	Storage bldg						158	POL tank			
48	Storage bldg					96	Prob admin bldg						159	Storage bldg			
49	Support bldg					97	Storage bldg						160	Storage bldg			
50	Fabrication bldg					98	Storage bldg						161	Storage bldg			
51	Small security bldg					99	Assembly bldg						162	Storage bldg			
52	Storage bldg						a						163	Storage bldg			
53	Fabrication bldg						b						164	Security gatehouse			
54	Storage bldg						c						165	Storage bldg			
55	Support bldg												166	Utility bldg			
56	Prob horizontal tanks (9)				Probably supports u/i test bldg (Item 57)	100	Utility bldg						167	Utility bldg			
57	U/I test bldg				Overall dimensions; adjacent to u/i test bldg	101	Storage bldg							Area C (Inset)			
58						102	Revetted storage bldg						168	Control/support bldg			
59						103	Storage bldg						169	Control/support bldg			
60						104	Revetted storage bldg						170	Control bldg			
61						105	Small utility bldg						171	Control bldg			
62						106	Small utility bldg						172	Control bldg			
63						107	Small utility bldg						173	Support bldg			
64						108	Maintenance bldg										
65						109	Storage bldg										
66						110	Storage bldg										
67						111	Storage bldg										
68						112	Storage bldg										
69						113	Storage bldg										
70						114	Storage bldg										
71						115	Storage bldg										
72						116	Storage bldg										

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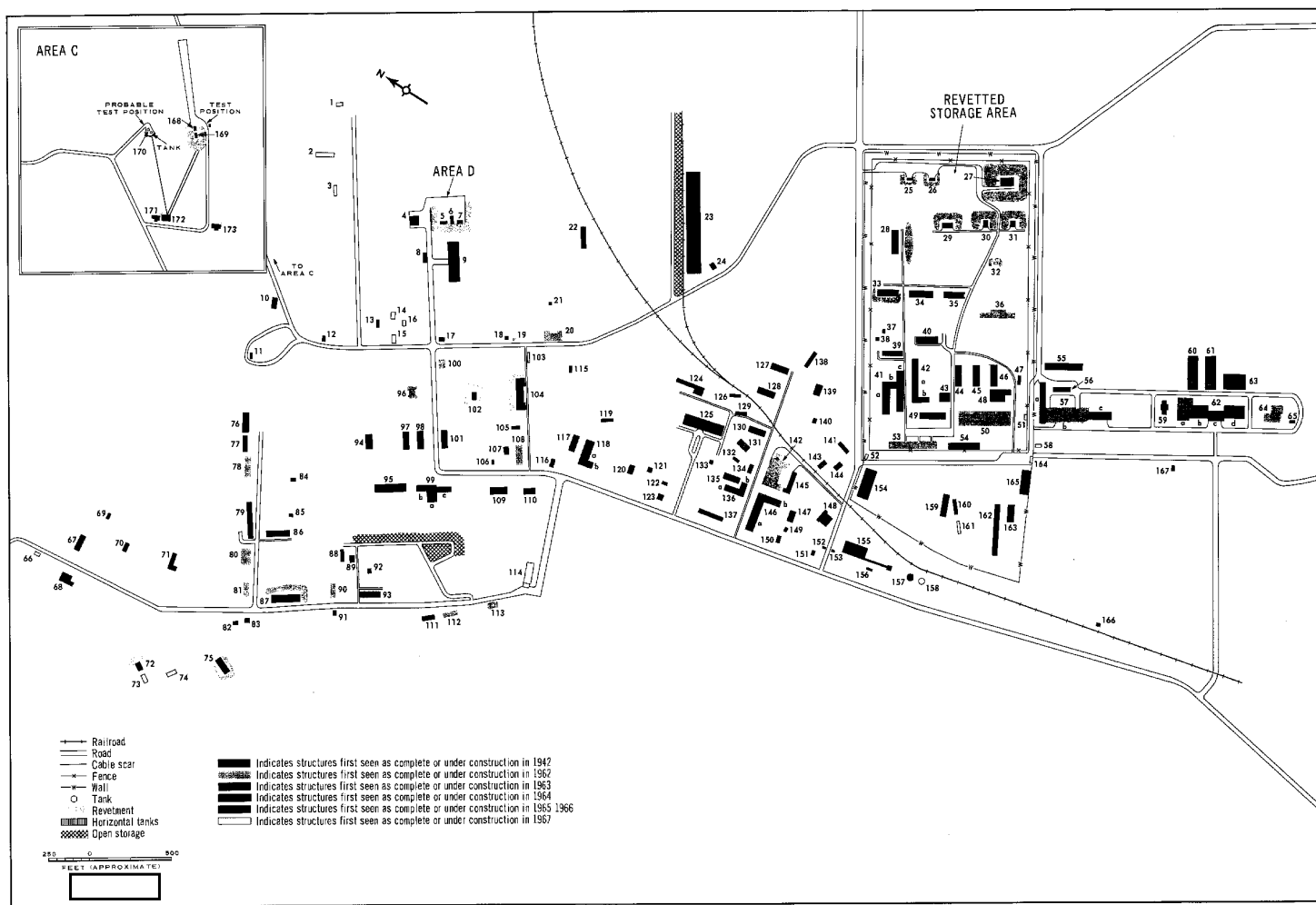


FIGURE 12. LAYOUT OF AREAS C, D, REVETTED STORAGE AREA, AND RELATED AREAS.

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Table 4. Probable Function, Dimensions, and Chronology of Structures in Area F, Probable Checkout/
Support Area, and Propellant/Explosives Storage Area
(Item numbers are keyed to Figure 13)

Item No	Probable Function	Dimensions (ft) L W	Roof Cover (sq ft)	Date First Observed*	Comments
Area F					In early stages of construction
1	Utility bldg				
2	Assembly bldg				
3	Support bldg				
4	Storage bldg				
5	Checkout bldg				
6	Support bldg				
7	Utility bldg				
8	Storage bldg				
9	Security bldg				
10	Support bldg				
11	Support bldg u/c				
12	Checkout bldg				
13	Support bldg				
14	Storage bldg				
15	Storage bldg				
16	Storage bldg				
17	Storage bldg				
18	Prob support bldg				
19	Poss test bldg				
Probable Checkout/Support Area					Possibly used for horizontal testing
20	Utility bldg				
21	Storage bldg				
22	Support bldg				
23	Small utility bldg				
24	Revetted storage bldg				
25	Vehicle/equipment bldg				
26	Support bldg				
27	Support bldg				
28	Storage bldg				
29	Revetted storage bldg				
30	Revetted storage bldg				
31	Handling bldg				
32	Revetted storage bldg				
33	Revetted storage bldg				
Propellant/Explosives Storage Area					Probably contain explosives
34	Security gatehouse				
35	Housing/support bldg				
36	Maintenance bldg				
37	Revetted storage bldg				
38	Revetted storage bldg				
39	Revetted storage bldg				
40	Revetted storage bldg				
41	Revetted storage bldg				
42	Revetted storage bldg				
43	Revetted storage bldg				
44	Revetted storage bldg				

*Complete when first observed unless otherwise noted.

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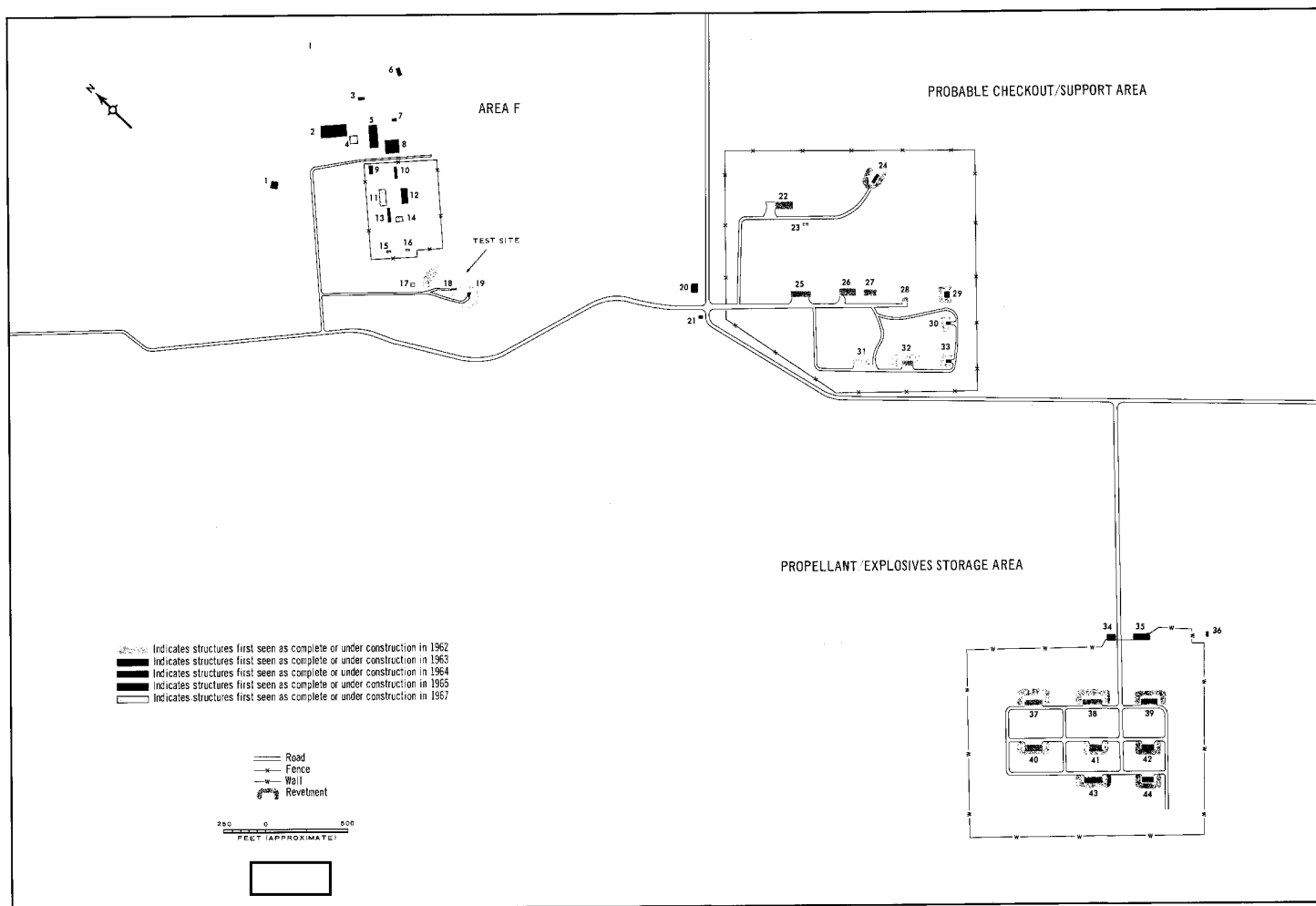
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FIGURE 13. LAYOUT OF AREA F, PROBABLE CHECKOUT/SUPPORT AREA, AND PROPELLANT/EXPLOSIVES STORAGE AREA.

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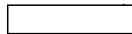


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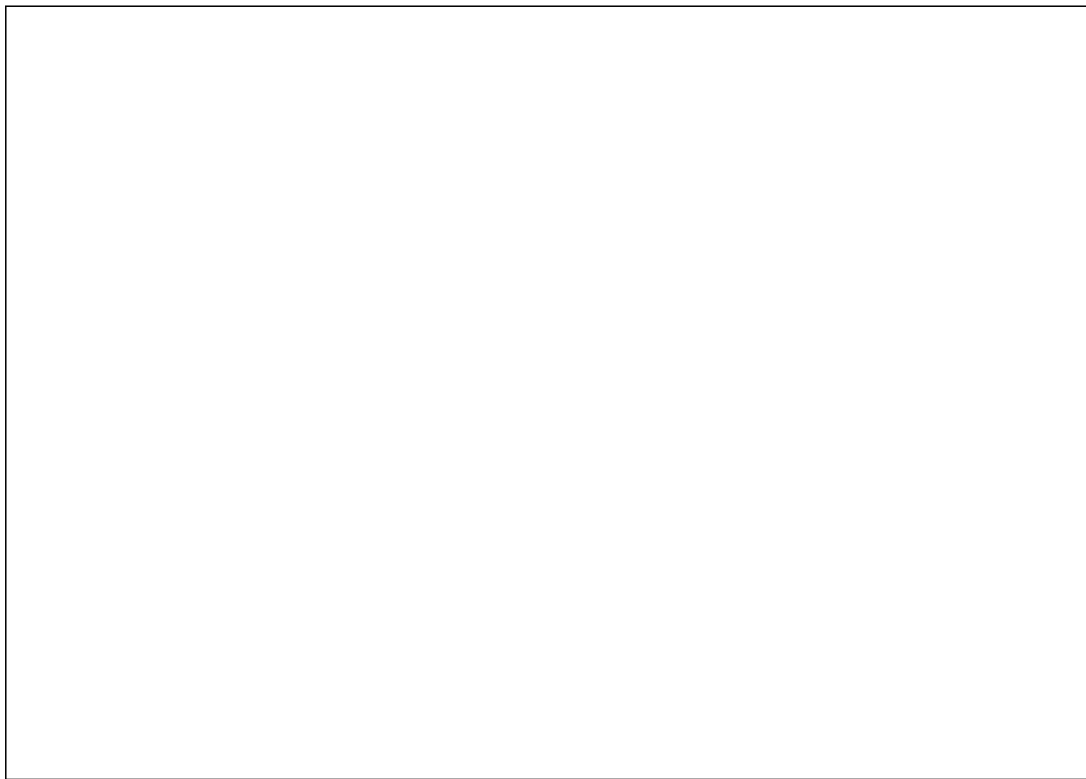
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REFERENCES



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MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0154-23

REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212/66 (partial answer)

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